The Transportation Safety and Biomechanics Program in TSD involves a wide variety of activities focusing on the protection of vehicle occupants. These activities combine the analytical modeling of the human body, experimental testing and analysis of real-world data to evaluate crashworthiness, and advanced sensor development associated with crash avoidance. These evaluations will help to reduce the number of transportation-related injuries and fatalities that occur each year. A new facility has recently been built to house a deceleration crash sled system that can simulate vehicle collisions at speeds of up to 50 mph. Anthropomorphic test dummies will be used to evaluate seat designs, safety systems, and passenger kinematics in various types of vehicles (e.g., automobiles, trains, planes). Current sponsors include the National Highway Traffic Safety Administration, Federal Railroad Administration, and General Motors.